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# MODEL TS-2633 / TS-2643

## UNICORN II UTILITY TESTER

### Outline

The Unicorn II Tensile Tester is an improved version of our long time proven tensile tester, Quick Reader. Adopting a servo motor system and the simple structure, it shows improved performance, operability, and safety. It can be used not only for quality control but also for a broad range of applications of material testing applications.

There are two models, TS-2643 is for automatic measurement of elongation with camera extensometer, while the model TS-2633 is not.



MODEL TS-2643



QMS . EMS  
ISO 9001  
ISO 14001  
JSAQ1320, JSAE1529



MS  
JAB  
CM001

株式会社 上島製作所

UESHIMA SEISAKUSHO CO., LTD

## Feature

- Easy operation and safety are secured with the simple structure where only minimum necessary parts are located out of the enclosure.
- The cross-head is driven by a ball screw and a servo motor, realizing arbitrary and accurate speed setting for each of test modes. The moving distance is read out in numeric values.
- Load cell capacity can be selected between 100N and 2kN in a standard configuration. A smaller capacity is also available for specific needs of customers.

## Specification

MODEL	TS-2633	TS-2643
Max. Capacity	2kN	
Load Cell Capacity	100, 200, 500, 1k, or 2kN (Specify when ordering)	
Chuck	One set of dumbbell chuck or wedge chuck is included	
Chuck Distance	793 mm max. (When using Dumbbell chuck or double-eccentric wheel chuck)	
Cross-Head Movement	Drive: AC servo motor (10 to 500 mm/min) Speed Accuracy: $\pm 1.0\%$ of setting Return speed: 10 to 1500 mm/min Display of moving distance: Digital display in 1-mm units	
Data Processing	Width and thickness of test piece: Numeric key input Intermediate modulus: measurement of five points max. Stress: automatic calculation at current measurement point, each of the modulus points and breakage point Average: median (JIS K6251, ISO 37), simple average Display: LCD panel Output: printer Load limiter: stop at 102% of load cell capacity	
Extensometer with cameras	No	Included as standard <ul style="list-style-type: none"> <li>▪ Tracking distance: 600 mm max.</li> <li>▪ Gauge tracking accuracy: <math>\pm 1</math> mm</li> </ul>
Option	Data transfer software <ul style="list-style-type: none"> <li>▪ Connects PC by RS232C interface and imports the data into EXCEL</li> </ul>	
Power Supply	100VAC, 1.5kVA, 50/60 Hz	
Outer Dimensions	700 (W) × 520 (D) × 1710 (H) mm	
Weight	Approx. 120kg	Approx. 150kg

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<Manufacturer>

# Ueshima

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※Please be noted that the contents in this brochure may change without prior notice due to improvement of the equipment. 027-468681-2